Note on Problem of Heat Exchange in a Pipe at High Rates of Air Motion, by G. V. Tsiklauri, V. V. Usanov, 6 pp.

RUSSIAN, per, Inzhemmo-Fizioh Zhur, Vol III, No 11, 1960, pp 48-51. 9670181

MCL-868/1

Sci - Phys

161,338

Jul 61

The Intensification of the Convective Heat
Exchange in a Tube with a Twisting Flow XIR
with Constant Pitch, by V. K. Termolin, 10 PP

RUBSIAN, per, Inshenerno-Fis Zhur, Vol III, Ho 11,
1960, WP 52-57. 967/106

WIR MATIC MCL-1290/V

Sci - Phys
11 Jul 61

Wire 10-7-13V.

Distribution of Temperatures in a Cylinder With Internal Heat Sources and Cooling by a Turbulent Liquid Flow, by T. L. Perelman, 4 pp.

RUSSIAN, per, <u>Inzbemuno-Fiz Zhur</u>, Nov 1960, Vol III, No 11, pp 72-76. 9670174

FTD MCIL-859/1

Sci - Phys

Jul 61

161,347

An Investigation of the Viscosity of Certain Liquids in a Wide Temperature Field, by N. I. Kophlov.

RUSSIAN, per, Inzbenerno-Fizicheskiy Zhur, Vol III, No II, 1960, pp 97-101. 9070169

ATIC MCL-870/1

HESE

159,671

Sci- Phys Jul 61

The Calculation of the Fundamental Region of An Aerodynamic Turbulent Wake in Closed Flow, by B. G. Khudenko, 11 pp.

HUSSIAN, per, Inzhenerno Fiz Zhur, Vol III, No 12, 1960, pp 3-10. 9673542

PTD-TT-61-135

Sci - Aero

2 Mar 62

186,248

THE SEDIMENTATION OF AEROSOL PARTICLES ON CYLINDERS, BY V. F. IGNAT!

RUSSIAN, PER, INZHENERO FIZ ZHUR, VOL 111, NO 12, 1960, PP 17-23.

NLL M.4629

SCI - CHEM

OTS 62-15-103

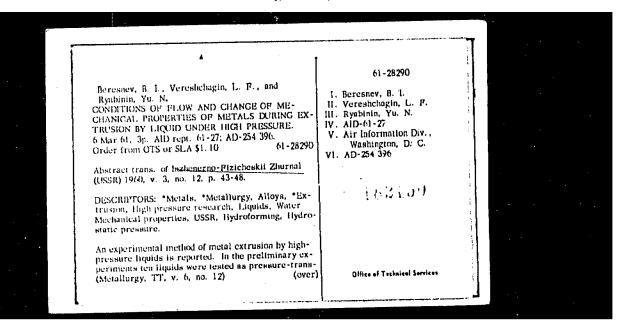
JUL 62

203,005

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91

CIA-RDP91-00929R000100140030-3

## APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100140030-3



Flame Propagation Over a Liquid Surface, by P. G. Ipatov, 7 pp.

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol III, No 12, 1960, pp 49-52. 9673543

FTD-TT-61-128

Sci - Phys

2 Mar 62

186,247



The Temperature Gradient in the Ranque-Hilsch Tube, by V. M. Brodyanskiy, I. L. Leytes, 10 pp.

RUSSIAN, per, Inshenerno Fin Zhur, Vol III, No 12, 1960, pp 72-77. 9673540

PHD-TT-161-157

Bci - Phys

186,636

2 Mar 62

(NY-6880

AN ANALYTICAL & METHOD OF CALCULATING
TWHE STATIC VOLT-AMPERE CHARACTERISTIC OF
A THERMISTOR DURING CHANGE IN THE TEMPERATURE OF
THE EXTERNAL MEDIUM, BY I. F. VOLOSHIN,
5 PP

RUSSIAN, PER, INZHENERNO-FIZ ZHUR, VOL III, NO 12, 1960, PP 111-113.

JPRS 12220

SCI - ENGR, PHYS FEB 62

181,832

(NY-5974)

Experimental Investigation of the Density of Liquid Oxygen at - 190 to - 120°C and Pressures to 200 kg/cm², Including the Saturation Curve, by D. L. Tierot, V. P. Borisoglebskiy, 20 pp.

RUBSIAN, per, Insh-Fiz Zhur, Vol IV, No 1, 1961, pp 3-13.

JPRS 9062 NATI TEVEL STAND TO 5

Sci - Phys

May 61

The Raiss of Chemical Reactions in Turbulent Flows, by A. S. Predvoditelev, 11 pp.

RUSSIAN, per, Inshemerno Fiz Zhur, Vol. IV, No 1, 1961, pp 14-21. 9675791

188,302

Sci - Phys

19 Mar 62

Effect of Enthalpy Recovery on the Surface of a Cylinder Past Which Flows a High-Velocity, Gas Stream, by Yo. Y. Shishov, 10 pp.

HISSIAN, per, <u>Dushenerno Fiz Zhur</u>, Vol IV, No 1, 1961, pp 37-43. 9675791

Sci - Phys

188, 304

19 Mar 62

A Study of the Effect of Ultrasonic Waves on the Heat Exchange of Bodies in Liquids, by A. A. Zhukeukas, A. A. Shlanchyauskas, E. P. Yaronis, 7 pp.

RUSSIAH, per, Inshenerno Fis Zhur, Vol IV, No 1, 1961, pp 58-62. 9673547

FTD-TT-61-110

Sci - Phys 2 Mar 62

OTS 63-18437 186,225

(nc=6366)

The Dissemination of Admixtures From An Instantaneous Point Source, by Yu. S. Sedunov, 9 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol IV, No 1, 1961, pp 98-103.

JPRS 10949

Sci - Phys Dec 61 176,366

Calculation of the Temperatures in Muclear Reactor Fuel Elements Under Transiert Conditions, by V. S. Yermakov, I. P. Zhuk, O. I. Yaroshevich, 9 pp.

RUSSIAN, per, Inshenerno Fis Zhur, Vol IV, No 1, 1961, pp 104-106. 9673547

PTD-17-61-110

Sci - Phys

2 Mar 62

186,224

The Equation of State for a Stoichicmetric Mitrogen-Hydrogen Mixture, by X Ya. Z. Kazavchinskiy, A. G. Tabachnikov, 6 pp.

HUSSIAN, per, Inzhenerno-Fiz Zhur, Vol IV, No 1, 1961, pp 116-119. 9677225

FTD-11-62-112

Sci - Phys Jun 62 199,512

(MY-5990)

Terminology of Heat and Mass Transfer 1, by I. T. El'perin, 28 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol IV, No 1, 1961, pp 131-148.

JPRS 9387

Sci - Phys Jun 61

155, 295

A Numerical LaPlace Transform, by V. S. Aizenshtat, A. S. Metelsky, 11 pp.

RUSSIAN, per, Inghanerno-Fiz Zhur, No 2, 1961.

USASIA Tr-1160

Sci - Phys Jun 61

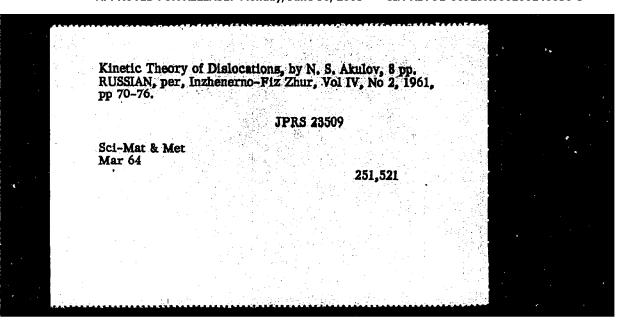
OT 6 62-52600

152, 893

An Experimental Determination of the Enthalpy of Corundum (Algo3) from 500 to 2000°C, by V. A. Kirillin, A. E. Sheindlin, V. Ya. Chekhovskoy, 17 pp.
RESIAN, per, Inshenerno-Finishaekii Zhurnal, Vol 4, No 2, 1961, pp 3-17. Ppli221367
AEC AHL Tr-450

331,131

Sci - Physics Jul 67



HEAT AND MASS TRANSFER DURING EVAPORATION OF A LIQUID IN A FORCED GAS FLOW, BY G. T. SERXENEX SERGEYEV, 6 PP.

RUSSIAN, PER, INZHENERNO#FIZ ZHUR, VOL IV, NO 2, 1961, PP 77-81. 9665770

FTD-TT-62-327

SCI - PHYS JUL 62

204,466

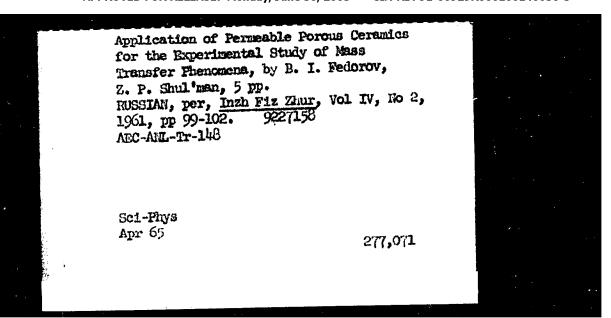
Regularities Observed in Mixtures of Liquid Fuel During Ignition, by V. I. Blinov, 6 pp.

RUSSIAN, per, Inshenerno-Piz Zhur, Vol IV. No 2, 1961, pp 95-98. 9678831

FTD-TT-62-1037

Sci-Chem Dec 62

217,621



Experimental Determination of the Effective Coefficient of Heat Conductivity and Diffusion for Bodies With Channel Porosity, Using the Nethod of Electrical Analogy, by G. Ye. Morozov, 5 pp.

RUSSIAN, per, Inzhenerno Fiz Zhar, Vol IV, No 2, 1961, pp 103-107: 9673056

FTD-TT-61-111

Sci - Phys

182,552

15 Feb 62

On the Change of Heat Transfer Intensity Through a Dielectric in an Electric Field, by

I. Ye. Balygin.

RUSSIAN, per, Inshenerno-Fisicheskiy Zhurnal,

Vol 4, No 2, 1961, pp 113-115.

NASA TT F-11,848

Sci Dec 68

368,781

SF-1675).

Lev Gerasimovich Loytsyanskiy (60th Birthday), by S. S. Zabrodskiy, B. M. Smolskiy, Z. P. Shul'man,

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhur, Vol IV, No 2, 1961, pp 116-118.

\*JPRS 459/

Sci - Biographic-Misc

17 Mar 61

The Contemporary State of the Question of Heat Exchange in Rarefied Gases, by A. H. Devoyno, 17 pp.

HISSIAN, per, Inshenerno Fiz Zimr, Vol IV, No 2, 1961, pp 119-130. 9675055

FED-TE-61-202

Sci - Phys

19 Mar 62

188,245

Calculation of Heat Transfer During Laminar Flow of a Fluid in Pipes Within a Range of Small Peclet Hunbers, by B. S. Petnikov, F. F. Tavetkov, 11 pp.

RESIAN, per, Inshenerno Fiz Elmr, Vol IV, 16 3, 1961, pp 10-17. 966452 NLL RTS 2328 on purchaseor loan

FFD-FF-61-321

Sci - Mile Phys

19 May 62

TT-11-23504 188,309

Flow Past a Plate by a Gas Burning on Its Surface, by L. M. Artynkh, L. A. Vulis, V. P. Kashkarov, 11 pp.

RUSSIAN, per, Inchenerno Fiz Zhur, Vol IV, No 3, 1961, pp 39-45. 9664292

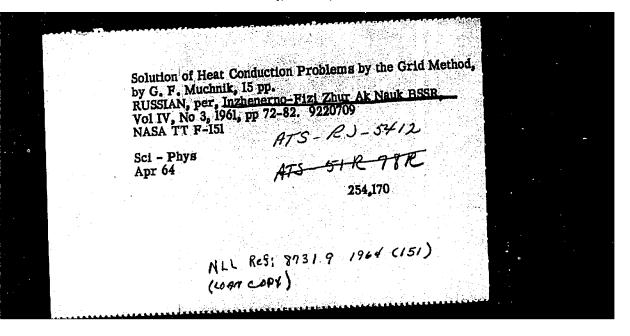
PTD-11-61-321

Sci - Phys

19 Mar 62

188,310





## APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100140030-3

The Viscosity of Air, Nitrogen, and Argon at Low Temperatures and Pressures to 150 Atmospheres, by G. P. Filippova, I. P. Ishkin, 7 pp.

RUSSIAN, per, <u>Inzhenerno Fiz Zhur</u>, Vol IV, No 3, 1991, pp 105-109. 9677357

FTD-TT-62-113

Sci - Phys 10 Jul 62

202,258

Effect of the Divergence Angle on the Position of the Shock Wave in a Supersonic Nozzle for Uncalculated Conditions in the Presence of Heat Transfer, by S. I. Kosterin, 8 pp.

RUSSIAN, per, Inzhenermo Fiz Zhur, No 4, 1961, pp 3-9.

ACSI I-0026 ID 2174793

Sci - Engr

20 Mar 62

188, 494

Artyukh, L. Yu., Vulis, L. A., and Kashkarov, V. P.
COMBUSTION OF GAS FLOWING AT THE SURFACE
OF A PLATE [Obtekanie Plastiny Gazom Goryatsim na
Ee Poverzhnoati]. Oct 61, 5p. 7 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of [Inzhener[no]-Fiz[icheskii] Zhur[nai] (USSR)
1961, v. 4, no. 3 [p. 39-45].
Other translations are available from OTS \$0.50 as
61-31682, APL/JHU TG-T246, 30 Aug 61, 9p.; and from
OTS or SLA \$2.60 in 62-19284, FTD-TT-61-321,
29 Jan 62 [25]p.; an abstract trans. from OTS or SLA
\$1.10 as 61-23489, AID-61-80, 23 May 61, 3p.

DESCRIPTORS: \*Gas flow, \*Boundary layer, \*Combustion, \*Compressible flow, Heat exchange, Surface
properties, Temperature.

For abstract see Technical Translations 7: 367, 1962.
(Physics--Thermodynamics, TT, v. 9, no. 4)

The Calculation of Thermodynamic Functions of a High-Temperature Air/Carbon Mixture, by V. L. Sergeyev, 14 pp.

RUSSIAN, per, Inzhemerno Fiz Zhur, Vol IV, No 4, 1961, pp 16-24. 9097021

AEC NP Tr-812 NLL M. HEST

Sci - Phys Mar 62

186,507

About Heat Exchange in a Laminar Current Plowing in a Tube, by T. L. Perol'man, 8 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol IV, No 4, 1961, pp 43-48. 9678947

PTD-TT-62-1233

Sci-Phys Doc 62 217,577

Beolpol'skii, M. S.
CHANGE IN STRUCTURE OF COLLOIDAL CAPILLARY POROUS MATERIAL (CLAY) DURING DRYING PROCESS. 13 Feb 62, 9p. (3 figs. omitted) 13 refs.
Order from OTS or SLA \$1.10 62-14229

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1961, v. 4, no. 4, p. 49-54.

DESCRIPTORS: \*Porous materials, \*Clays, \*Dehydration, Moisture, Deformation, Mechanical properties, \*Colloids, Microstructure.

The paper analyzes changes in the structure of clay during the drying process on the basis of structural-mechanical, shrinkage, and desorption properties. We determined the connection between critical points on shrinkage curves, curves of drying rate, and curves of desorption and the critical points of structural changes. (Author)
(Chemistry--Physical, TT, v. 8, no. 4)

Use of the Out-of-Focus Method in a Shadow Instrument for Measuring the Density in a Jet Flowing Out of a Nozzle Under MNANICHEMA Conditions, by Chiang Che-hsing. Uncalculated

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol IV, No 4, 1961, pp 10-15.

\*FTD TT-62-22

Jan 62 Sci - Phys

The Crystallization of Supercooled Liquid in an Ultrasonic Field, by L. O. Maleshko, 4 pp.

RUSSIAN, per, irm Inzhenerno-Fiz Zhur, Ak Nauk Beloruskoi SSR, Vol IV, 1961, pp 123-125. 9080250

ABC Tr-4635

Sci Sep 61 167,851

EXTERNAL HEAT AND MASS TRANSFER IN EVAPORATION OF K A LIQUID FROM A CAPILLARY-POROUS BODY, BY G. T. SERGEYEV, 7 PP.

RUSSIAN, PER, <u>INZHERERNO-FIZ</u> ZHUR, VOL IV, NO 5, 1961, PP 33-37. 9665783

FTD-TT-62-329

SCI - PHYS JUL 62

204,465

Predvoditeley, A. S.
ON THE NATURE OF THERMAL MOTION IN
LIQUIDS, PT. 1. Jan 62, 6p.
Order from ICE in v. 2, no. 1, \$15.00/year

Trans. of inzhenerno-Pizicheskii Zhurnal (USSR)
1961, v. 4, no. 6, p. 3-12.

DESCRIPTORS: Thermodynamics, \*Thermal diffusion, \*Hydrodynamics, \*Fluid flow, Liquids, Heat of formation, Density, \*Chemical engineering.

(Physics--Thermodynamics, TT, v. 8, no. 10)

Office of Technical Services

Laws of Resistance and Heat Transfer in a Turbulent Boundary Layer of Compressible Gas and the Calculation of Frictinn and Heat Transfer, by S. S. Kutateladze, A. I. Leont'yev, 13 pp.

RUSSIAN, per, WXXXXXXXX Inzhenerno-Fiz Zhur, Vol IV, No 6, 1961, pp 33-41. 9678094

PVD-TT-82-330

Sci - Phys Sep 62

209,714

Calculating the Supersonic Section of a Laval Nozzle, by A. Sh. Dorfman. 10 pp. PMESIAN, per, Inzhenemo-Fizicheskiy Zhumal, Vol 4, Ho 6, 1961, pp 51-57. AIR/FTD/HE-24-172-69

sci/mathematical sci jan 70

399,751

The Speed of Sound in Water and in Water Vepour on the Saturation Line, by V. V. Sychev.

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol IV, No 6, 1961, pp 64-69.

NLL M 3969

Sci - Phys reb 63

223,551

THE BASIC PATTERNS OF HEAT TRANSFER IN A RAREFIED GAS IN THE CASE OF NATURAL CONVECTION, BY A. N. DEVOYNO, 13 PP.

RUSSIAN, PER, INZHENERNO#FIZ ZHUR, NO 6, XX 1961, PP 70-77. 9677931

FTD-TT-62-677

SCI - PHYS AUG 62

207,967

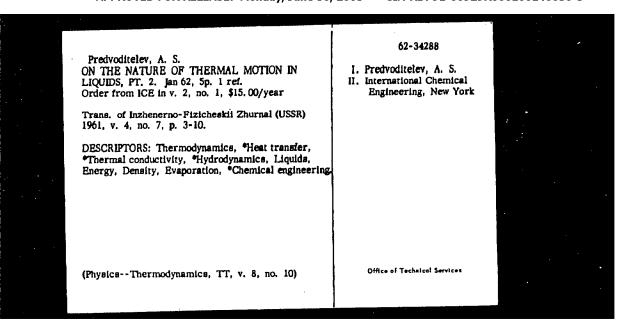
The Solution of Certain Three-Dimensional Problems of Radiant Heat Transfer by Reducing Them to Two-Dimensional Problems, by E. I. Mikk, I. P. Epik, 18 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol IV, No 6, 1961, pp 90-100. 9678094

FTD-TT-62-330

Sci - Phys Sep 62

209,715



THE EFFECT OF VARIABLE HEAT FLOW ALONG THE SURFACE OF A PIPE ON HEAT TRANSFER WITH TURBULENT FLOW, BY G. S. AMBROK, 8 PP.

RUSSIAN, PER, <u>INZHENERNO-FIZ</u> ZHUR, VOL IV, NO 7, 1961, PP 19-24. 9665958

FTD-TT-62-380

SCI - ENGR AUG 62

207,994

The Effect of the Temperatures of the Flow and the Wall on the Heat Transfer During the Crossflow of a Liquid through a Tube Bundle, by V. M. Antnf'ev. RUSSIAN, per. Inshenerno-fisioheskii sharmal, Vol 4, No 7, 1961, pp 25-29. NLL Ref: RTS 3826

Sci/Phys Feb 68

349,641

THE PULSE METHOD OF DETERMINING THE ENERGY OF SUBLIMATION OF METALS AND ALLOYS, BY N. A. PROTOPOPOV, V. M. KUL'GAVCHUK, 9 PP.

RUSSIAN, PER, INZHENERNOJFIZ ZHUR, VOL IV, NO 7, 1961, PP84-90. 9678242

FTD-TT62-797

SCI - PHYS 11 OCT 62

212,333

THE POSSIBILITY OF USING CERTAIN ORGANIC SCINTILLATORS FOR DOSIMETRY, BY YU. A. YEGOROV, V. A. KUCHERYAYEV, 4 PP.

RUSSIAN, PER, INZHENERNO-FIZ ZHUR, VOL IV, NO 7, 1961, PP 117-119. 9678379

FTD-TT-62-678

SCI - PHYS 11 OCT 62

**202** 212,33<sup>4</sup>

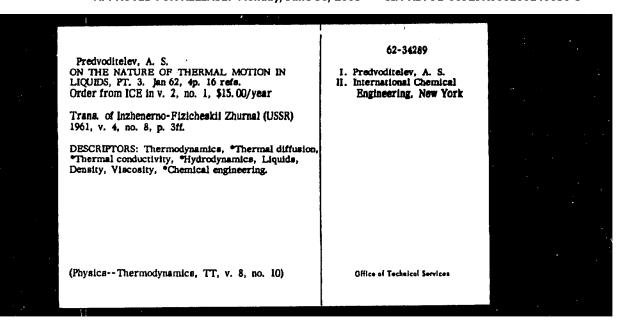
(ar-1879)

First All-Union Conferences on Heat- and Mass-Exchange, by I. P. El'perin, 27 pp.

RUSSIAN, Incheserno-Fiz Ehur, Vol IV, Ho 7, 1961, pp 124-136.

JPRS 12645

Sci - Phys Mar 62 188,566



HEAT TRANSFER OF A TWO-PHASE FLOW WITH A CLUSTER OF PIPES, BY X I. T. EL'PERIN, 9 PP.

RUSSIAN, PER, INZHENERNO-FIZ ZHUR, VOL IV, NO 8, 1960, PP 30-35. 9677926

FTD-TT-62-679

SC! - PHYS AUG 62

207,964

Investigating an Automatic Control System for the Power Level of a Ruclear Reactor, by A. V. Bondarenko, Yu. A. Voznesenskiy, 6 pp.

RUBSIAN, per, Inzhenerno-Fiz Zhur, Vol IV, No 8, 1961, pp 54-62.

Interntl Physical Index Power Express Vol I, No 2

Sci - Engr.

200,916

Jun 62

Dogin, M. E. and Lebedev, V. P.
DEPENDENCE OF THE RESISTANCE IN PNEUMATIC-CONVEYING PIPELINES ON THE FUNDAMENTAL PARAMETERS OF TWO-PHASE FLOW. Jan 62,
4p. 4 refs.
Order from ICE in v. 2, no. 1, \$15.00/year

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR)
1961, v. 4, no. 8, p. 93ff.

DESCRIPTORS: \*Pneumatic systems, \*Conveyors,
Resistance, \*Phase studies, Fluid flow, Cas flow,
Particles, \*Chemical engineering.

(Machinery--Transport, TT, v. 8, no. 10)

62-34295

i. Title: Pipelines
I. Dogin, M. E.
III. Lebedev, V. P.
III. International Chemical
Engineering, New York

Office of Technical Services

The Cellular Structure of a Convection Current in a Vertical Cyliner of Circular Cross-Section, by E. I. Slavnova.

RUSSIAN, per, <u>Inshenerno-Fisicheskii Zhurnal</u>.

No 8, 1961, pp 80-86.

P911347567

AEC IS-TRANS-60

Sci-Hat Nov 1967

343,621

STATIONARY HEAT CONDUCTIVITY IN A SEMI-LIMITED BODY WITH INTERNAL CYLINDRICALM HEAT SOURCES, BY I. A. 10FFE, 5 PP.

RUSSIAN, PER, INZHENERNO-FIZ ZHUR, VOL IV, NO 8, X960 1961, PP 111-113. 9677926

FTD-TT-62-679

SCI - PHYS

207,965

**AUG 62** 

DETERMINATION OF THE ENTRAINMENT OF A LIQUID BY A GAS STREAM FROM THE SURFACE O

ZHIVAYKIN, L.YA LANGUAGE-RU COUNTRY-UR

INZHENERNU-FIZICHESKIY ZHURNAL NG 8, 1961 PP 114-115

FSTC-HT-23-1992-72

Determining the Velocity of an Average-size Condensate Brop in a Flow of Saturated Vapor, by I. P. Faddeyev, 5 pp.
RUSSIAN, per, Inzhen Fiz Zhur, Vol IV, No 9, 1961,
HASA TT F-364

Sci - Phys
Aug 65

287,263

Method of Investigating Boundary Layer in a Few Type Working Section, by A. M. Mchitaryan, V. S. Maksimov, V. Ya. Fridland, 6 pp.

RUSSIAN, per, Inghenerno Fiz Zhur, Vol IV, No 9, 1961, pp 12-16. 9675775

PTD-TT-61-383

Sei - Phys

19 Mar 62

188,271

The Aerodynamic Resistance of a Fluidiaed Bed, by A. V. Chechetkin.

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol IV, No 9,

1961, pp 17-25.

AEC NP-Te 794 AERE, Harvell Tr-1571

Sci - Phys Jul 62

202,218

Heat Exchange During Free Movement Around a Borizontal Cylinder in Rarefied Air, by A. K. Rebrov, 12 pp.

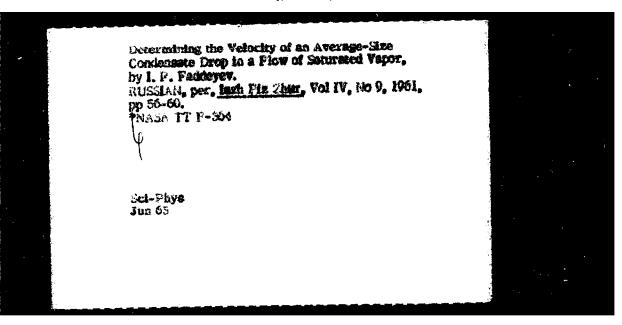
RUSSIAN, per, Inzhenerne Fiz Zhur, No 9, 1961, pp 32-39. 9676117

FTD-TT-62-135

Sci - Phys

189.750

5 Apr 62



Heat Conduction of Monatomic Gases, by A. A. Tarzimanov, A.A. Yanga

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol IV, No 9, 1961, pp 86-89.

\*AEC - D - DIFTY

Sci - Phys Aug 62

Properties of Steam - A Theory of the Critical Region, by V. V. Sychev.

RUBSIAN, per, Inzhenerno Piz Zhurnal, No 9, 1961, pp 127-131.

MIL M 3889

Sci - Bogr Mar 63

M. Hy Come Car

225, \$400

Calculation of the Viscosity of Compressed Gases by the Similarity Method, by G. P. Filippova, I. P. Ishkin, 10 pp.

RUSSIAN, per, Inshemerno Fiz Zhur, Vol IV, No 10, 1961, pp 9-14. 9676737

FFD-FF-62-84

Sci - Phys

23 May 62

196,486

The Effect of Non-Stationary Heat on the Heat Transfer Coefficient in Case of External Streamlining of Solids, by L. I. Kudryashev, A. A. Smirnov, 14 pp.

MUSSIAN, per, Inshenerno Fis Mur, Vol IV, No 10, 1961, pp 21-29. 9676737

FID-II-62-84

Sci - Phys

196, 488

23 May 62

Murashko, M. G.
A STUDY OF THE FILTERING MOTION OF LIQUIDS, TAKING INTO ACCOUNT THE EFFECTS OF
HEAT AND MASS TRANSFER PHENOMENA. Apr 62,
4p. 4 refs.
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of inzhenerno-Fizicheskli Zhurnal (USSR) 1961,
v. 4, no. 10, p. 30ff.

DESCRIPTORS: \*Chemical engineering, Hydrodynamics, \*Fluid flow, \*Heat transfer \*Mass transfer,
Porous filters, Phase studies, Capillaries, Osmotic
pressure.

(Mechanics--Hydrodynamics, TT, v. 8, no. 11)

Office of Techalcal Services

Novikov, P. A.
A STUDY OF SUBLIMATION FROM MOVING BODIES UNDER VACUUM CONDITIONS. Apr 62, 3p. 7 refs. Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1961, v. 4, no. 10, p. 36ff.

DESCRIPTORS: \*Chemical engineering, Spheres, Motion, \*Naphthalenes, \*Sublimation, Heat transfer, Mass transfer, Vacuum systems.

(Engineering--Chemical, TT, v. 8, no. 11)

Office of Techalcol Services

A Complete System of Equations for a Leginar Boundary Layer and the Boundary Conditions in the Presence of Sources of Matter and Energy in the Flow and on the Surface of a Solid, by V. P. Motulevich, 11 pp.

RUSSIAN, per, Ingherarno Fiz Zhur, Vol IV, No 10, 1961, pp 44-51. 9676125 SLA 62-34312 FTD-TT-62-23

Sci - Phys 5 Apr 62

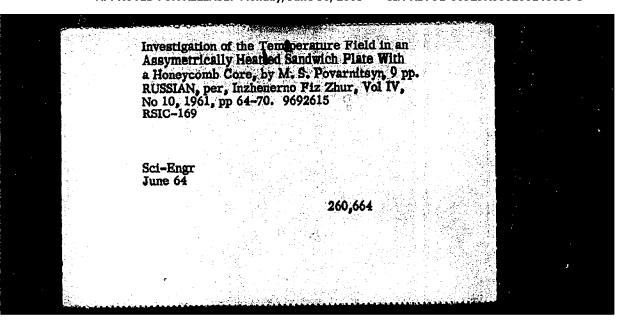
189.755

Inverse Problems of Heat Conduction of an Asymmetrical Field, by A. G. Temkin.

RUSSIAN, per, Inzherno Fiz Zhur, Vol IV, No 10, 1961, pp 52-63.

\*FTD TT 62-680

Sci - Phys 24 Apr 62



The Effect of the Material of the Electrodes of Ignition of Explosive Gas Mixtures by a Spark Discharge, by V. A. Koloty, D. S. Gerchikov, 8 pp.

NO 10, 1961, pp 97-100. 9676737

NLL M. 3973 196, 487

Sci. - Phys

23 May 62

Heat Exchange in a Liquid Flow Through Pipe With Discreet Heat Sources, by E. P. Zimin.

RUSSIAN, per, Inzhermo Fiz Zhur, Vol IV, No 10, 1961, pp 127-128.

\*FTD TT 62-680

Sci - Phys 144 Apr 62

On the Question of Heat and Mass Transfer at the Forward Point of Blunt Bodies in the Transfer of Heterogeneous Linumical Reactions, by V. P. Motulevich, 15 pp.

RUSSIAN, por Inzhenerno-Fiz Zhur, Vol IV, No 11, 1961, pp 10-18. 9683263

FTD-TT-63-310

Sci-Phys Jun 63 234, 230

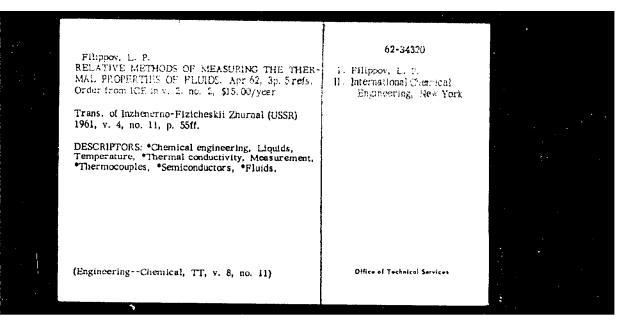
AN ANALYTICAL STUDY OF THE SEPARATED LAMINAR FLOW OF A TWO-PHASE MIXTURE IN INCLINED PIPES, BY N. 1. SEMENOV, A. A. TOCHIGIN, 9 PP.

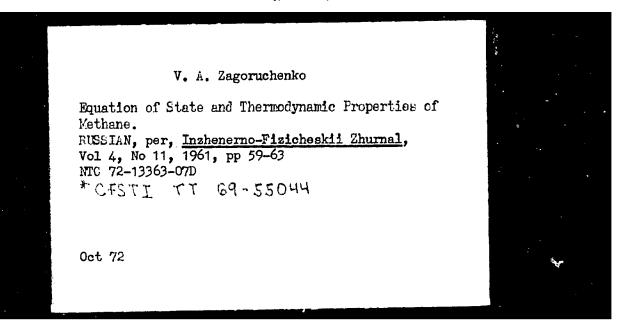
RUSSIAN, PER, INZHENERNO-FIZ ZHUR, VOL IV, NO 11, 1961, PP 29#X 29-36. 9677925

FTD=TT-62-717

SIC - ENGR AUG 62

207,963





EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER OF A LONGITUDINALLY STREAMLINED PLATE IN A LAMINAR BOUNDARY LAYER, BY A. A. ZHUKAUSKAS, I. I. ZHYUGZHDA, 7 PP.

RUSSIAN, PER, <u>INTHENERNO\_FIZ ZHUR</u>, MOL IV, NO 11, XX 1961, PP 105-X9 108. 9677946

SCI - PHYS AUG 62

FTD -TT-62-798 Navy TN 3230/APL7-317 OTS TT-62-11747

207,968

Motulevich, V. P.
HEAT AND MASS TRANSPER AT THE FRONT OF
A BLUNT BODY IN THE PRESENCE OF HETEROGENEOUS CHEMICAL REACTIONS. Apr 62, 6p.
5 refs.
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of inzhenerno-Fizicheskii Zhurnai (USSR) 1961,
v. 4, no. 11, p. 10ff.

DESCRIPTORS: \*Chemical engineering, \*Blunt bodies,
Gas flow, \*Mass transfer, \*Heat transfer, Chemical
reactions, Combustion.

(Mechanics - Aerodynamics, TT, v. 5, no. 11)

Office of Technical Services

The Propagation of Sound in Saturated Streams of Liquids, by Y. I. Avdonin, I. I. Rovikov.

RESIAN, per, Inshenerno Fiz Zhur, Vol MIV, No 12, 1961, pp 11-15

HILL M 3964

Soi - Phys Pab 63

223,550

Lykov, A. V. and Zhikharev, E. A.
A NEW METHOD FOR SEPARATING MOLECULAR
SOLUTIONS AND GAS MIXTURES. Apr 62, 6p.
5 refs.
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR)
1961 [v. 4] no. 12, p. 22-31.

DESCRIPTORS: \*Chemical engineering, Solutions,
Gases, Mixtures, Separation, Towers (Chemistry).

(Engineering--Chemical, TT, v. 8, no. 11)

62-34330

1. Lykov, A. V.
II. Zhikharev, E. A.
III. International Chemical
Engineering, New York

Office of Technical Services

AC-Electric Arc Installation for the Matrixem Obtainment of High Temperature Gas Flow, by V. S. Pelevin, 9 pp.

RUSSIAN, per, Inzhenerno-Pizicheskiy Zhur, No 12, 1961, pp 32-36, 9681601

FTD-TT-62-1753

Sci-Phys May 63

229,513

Atomization of Liquds, by A. S. Pen!ko.

RUSSIAN, per, Inzherno Fiz Zhur, Vol IV, No 12, 1961, pp 47-51.

\*FTD TT 62-681

Sci - Phys 24 Apr 62

Report on NMX biological protection from nuclear reactor radiation from the applied physics aspect, by D. L. Broder, K. K. Popkov, 4pp.

Scineral, per, Inzhenerno-fiziehoshti zhur, Vol IV.

No 12, 1961, pp II8-I30. 92/2446

\*AEC \*\*\*AEC \*\*\*\*

Sci-Biol Nu Phys
Dec 62

NLL RJ: 5628.4 1963 (10361)

Study of the Upper Combustibility Limit of
Hydro-carbon Gases During Pressure Changes, by
A. Nemeth.
RUSSIAN, per, Inzh-fiz. Zh. Vol. 5, 1962, pp 27-32
GB 28

Sci Aug 67

337-216

Kaitrin, L. N., Ravich, M. B., and Kotova, L. L.
THE METHODS AND RESULTS OF AN INVESTIGATION INTO THE KINETIC CHARACTERISTICS OF THE
COMBUSTION OF A POWDERED FUEL IN A STREAM.
Buly 62 [5]D. 12 refs.
Order from ICE is v. 2, no. 3, \$15.00/year

63-12243

1. Khitrin, L. N.
III. Ravich, M. B.
III. Kotova, L.
IV. International Chemical C

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1962 [v. 5] no. 1, p. 7ff.

DESCRIPTORS: \*Fuels, Powders, \*Carbon, \*Coke, Combustion, Reaction kinetics.

(Chemistry--Physical, TT, v. 9, no. 2)

63-12243

- IV. International Chemical Engineering, New York

Office of Technical Services

APPROVED FOR RELEASE: Monday, June 30, 2003

CIA-RDP91-00929R000100140030-3

To Calculate Convective Processes of Water Evaporation From Vertical Cylindrical Containers, by V. B. Shein. RUBBIAN, per, Inzhemerno-Fiz Zhur, Vol V, No l, 2 1962, pp 52-54. HIL RIB 2207 (loan) 238,117 Sci " Phys Jul 63

On the Critical Paramters of Alkali Metals, by
V. M. Abramova, P. L. Kirillov.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 5,
No 1, 1962, pp 108-110.
Dept of Navy NRL Trans No 1146

Sci-Phys
Aug 68

365,772

Electric-Arc Preheaters for Formation of Righ-Temperature Jets, by A. G. Shashkov, O. I. Yas ko, et al, 27 pp.

RESIAN, por, Incheserno-First Zhur, Vol V, No 1, 1962, pp 115-129. 9666846

MD-11-62-1092

216,885

Scil - Phys Mov 62

Motion of a Body in a Fluidized Bed, by Y. P. Gupalo. RUSSIAN, per, Wa Inz. Fiz. Zh., Vol V, No 2, 1962 (Feb), pp 15-18.

AEC

Mar 64 Sci

Heat Transfer with Carbon Dioxide Along Supercritical Isotherms Under Free-Convection Conditions, by V. P. Skripov, P. I. Potashev. RUSSIAN, per, Inzhereno-Fizicheskiy Zhurnal, Vol 5, No 2, 1962, pp 30-34. \*NASA TT F-11,333

Sci-Phys Jan 68

